POLAND

MIKUCKI, J., and GANCZARSKI, A., of the Chair and Research Office of Bacteriology, School of Medicine (Katedra i Zaklad Bakteriologii AM), Lodz. Doc. Dr. A. Ganczarski, Head.

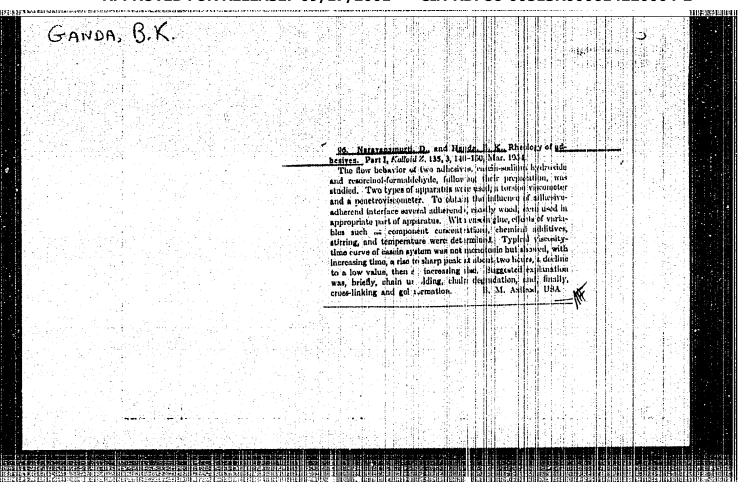
"Amino Acid Requirements of Staphylococcus aureus Strains Sensitive and "esistant to Antibiotics"

Warsaw, <u>Medycyna Doswiadczalna i Mikrobiologia</u>, Vol 23, No 3, 1966, pp 193-202.

Abstract (Author's English summary modified): S. aureus strains 31-r, 209-P and Wood-46, both sensitive to antibiotics and with induced resistance to penicillin, streptomycin, chloramphenicol, oxytetracycline, erythromycin and neomycin were tested for their amino acid requirements. Qualitative and quantitative changes in amino acid requirements were found in the variants resistant to all the antibiotics listed with the exception of the erythromycin-resistant strain.

Contains 1 Table and 23 references (2 Polish, 18 "estern and 3 Russian).

1/1

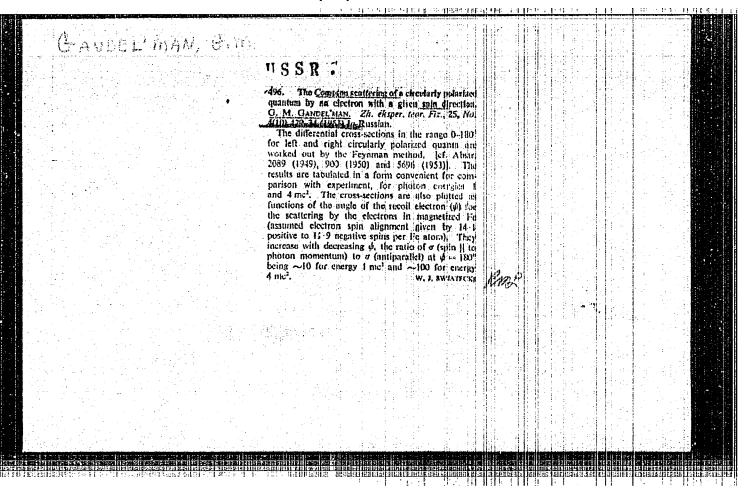


Role of audits in the improvement of work of State Bank branches.

Den. i kred. 19 no.3:62-65 Mr '61. (MIRA 14:3)

1. Starshiy revizor Leningradskoy gorodskov kontory Gosbanka. (Leningrad—Banks and banking—Auditing and inspection)

ElKor _r e	STAYS, M.H., GATOELI, V.d.; profer /, Tene		
	Netection of sulfamiliamide preparations by the method r thin-layer crystallization. Apt. delc 14 no. 4263-65 JI 165 (MIRA 19	- Ag	
	 I Moskovskiy ordena lenina meditainskiy inctitut imen I.M. Sechenova. 	iđ.	
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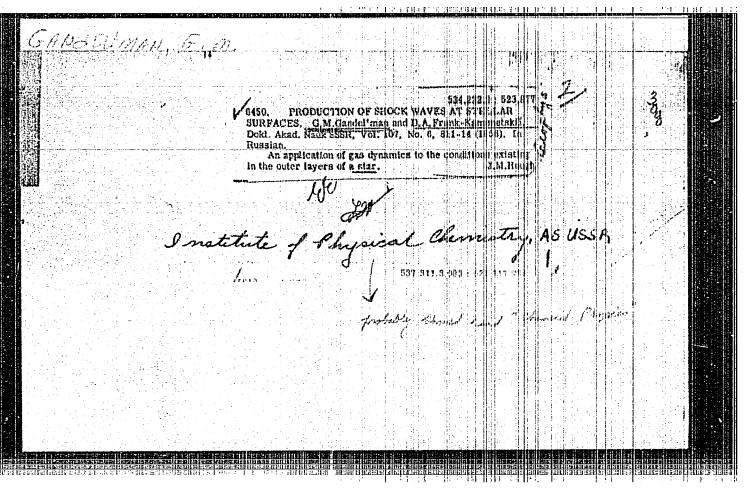
GANDEL'MAN, G.M.; ZEL'DOVICH, Ya.B.

Determination of the limit of applicability of quantum electrodyna-

mics by measuring the magnetic moment of electrons. Dokl.AN SSSR 105 no.3:445-447 N '55. (MLRA 9:3)

1. Chlen-korrespondent AN SSSR (for Zel'dovich); 2. Institut khimicheskoy fiziki Akademii nauk SSSR.

(Electrons) (Quantum theory)



21(0), 24(5) SOV/56-36-2-35/63 Gandel'man, G. M. AUTHOR: Correlation Between the Direction of an Internal Bremsstrahlung TITLE: Quantum and the Circular Polarization of a Y-Quantum Emitted by an Excited Nucleus After a K-Capture (Körrelyatsiya mezhdu napravleniyem vnutrennego tormoznogo kvanta i krugovoy polyarizatsiyev Y-kvanta, ispushchennogo vozbuzhdennym yadrom posle K-zakhvata) Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, PERIODICAL: Vol 36, Nr 2, pp 585-587 (USSR) Together with ordinary K-capture, a radiation K-capture is ABSTRACT: observed, which is frequently described as internal bremsstrahlung. In this connection a continuous Y-spectrum is formed up to a maximum energy W_0 . If, on this occasion, a nucleus in an excited state is formed, circular polarization of the Y-quanta of the excited nucleus can be observed in coincidence with the direction in which the bremsstrahlung May quanta are emitted. This makes it possible to determine the spin of the excited states of nuclei formed in K-capture. As shown by reference 1, it is possible, in the case of electron Card 1/2

Correlation Between the Direction of an Internal SOV/56-36-2-35/63 Bremsstrahlung Quantum and the Circular Polarization of a Y=Quantum Emitted by an Excited Nucleus After a K-Capture

\$\beta\$-decay, to determine the spins of excited states by investigating the correlation of electrons and of the circular polarization of the excited nucleus. The author investigates the correlation between the \$\mathcal{Y}\$-quantum from radiative K-capture and the circularly polarized \$\mathcal{Y}\$-quantum from an excited nucleus. This correlation occurs exclusively in the case of nonconservation of parity in K-capture. The author derives a formula for this correlation and its dependence on the spins of the initial excited and final states of the nuclei. The author finally thanks Ya. B. Zel'dovich for his attention and his interest in this work. There are 2 references.

SUBMITTED:

August 23, 1958

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Card 2/2

24(5), 21(7)

AUTHORS: Gandel man, G. M., Mokhov, V. N.

SOV/56-36-5-33/76

TITLE:

The Radiation Capture of a Polarizedu -Meson by Nuclei

(Radiatsionnyy zakhvat polyarizovannogo , -mezona yadrami)

PERIODICAL:

Zhurmal eksperimental'noy i teoreticheskoy fiziki 1959, Vol 36,

Nr 5, pp 1513-1516 (USSR)

ABSTRACT:

In the case of the radiation capture of a polarized \mathcal{M} -meson (internal bremsstrahlung) with non-conservation of parity, there is a correlation between the muon spin direction and the direction of the departure of the ψ -quantum; the latter is investigated by the present paper. The experimental investigation of the asymmetry of the flying off ψ -quanta offers a possibility of forming a decision concerning the nature of muon-nucleus interaction. The problem has already been investigated with respect to muon capture

by protons by employing the two-component neutrino theory; Gershteyn and Zel'dovich (Ref 2) showed that total depolarization of the muon occurs in hydrogen, which is explained as being a

consequence of a skip effect on the protons. However, it also proves necessary to consider muon depolarization as a result of muon- and nuclear spin, and to investigate the two possible

Card 1/3

The Radiation Capture of a Polarized u-Meson by Nuclei

SOV/56-36-5-33/76

states F = J+1/2 separately (hyperfine splitting); this was done for the first time by Bernstein et al (Ref 3) for the normal muon capture by nuclei. Because of the conservation of spin in the system muon-nucleus, the nuclei themselves show partial polarization after depolarization of the mesons. Calculation of correlation in the case of the existence of a hyperfine structure is carried out for a nucleus with any spin J; the M-meson polarized in the z-direction is assumed to be captured in the K-orbit of the nucleus. By means of the wave function describing the state of the meson formed, formulas are derived for the capture probability $W_{F,F}$. $(F = J + 1/2, F_z = M + 1/2,$

the projection of the total momentum on to the z-axis). For the correlation function $T-1+3\cos\theta$ then holds. (0 = the angle between the original muon spin and the y-momentum). For β formulas are in the following derived, which represent $C_A C_V$ and $C_S C_T$ and also M and J. With J = 0 the same results are obtained as in the case in which hyperfine splitting-up is not

Card 2/3

The Radiation Capture of a Charged M-Meson by Nuclei

SOV/56-36-5-33/76

taken into account, i.e. according to the spin of the recoil nucleus $J_f \beta$ as a function of the interaction constants: $J_f = 1 : \beta = +(|C_A|^2 - |C_T|^2)/(|C_A|^2 + |C_T|^2)$

$$J_{f} = 1 : \hat{\beta} = \pm (|c_{f}|^{2} - |c_{f}|^{2})/(|c_{f}|^{2} + |c_{f}|^{2})$$

$$J_f = 0 : \beta = \pm (|c_v|^2 - |c_s|^2)/(|c_v|^2 + |c_s|^2)$$

The authors thank Ya. B. Zel'dovich for his interest and valuable advice. There are 7 references, 2 of which are

SUBMITTED:

November 25, 1958

Card 3/3

GANDEL'MAN, G.M.; PINAYEV, V.S.

**Bmission of neutrinc pairs by electrons and its importance in stars. Zhur.eksp.i teor.fiz. 37 no.4:1072-1078 0 '59.

(*Blactrons*) (Stars*)

(*Blactrons*) (Stars*)

83726

24.7000 2**4.41**00 3/056/60/038/004/019/048 B006/B056

AUTHORS:

Gandel'man, G. M., Pavlovskiy, Ye. W.

TITLE:

The Quantum-mechanical Calculation of Pressure in Solids

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 38, No. 4, pp. 1176 - 1182

TEXT: One of the main problems in solid state physics is the calculation of the cohesion energy in the normal state as well as the determination of the compressibility curves, i.e. the density-pressure-function. The quantum-theoretical method of calculating temperature and pressure not only furnishes equally good results as other methods (e.g. the Thomas-Fermi method), but, beyond that, it is characterized by a number of particular features which are due to the reconstruction of the atomic electron shells in compression. An investigation of pressure in a solid by quantum-mechanical means is very complicated, which is, above all, due to the fact that the system is not a close one. Pressure might be expressed by the quantum-mechanical stress-tensor, which, however, leads to difficulties because of the necessity of taking the electromagnetic Card 1/2

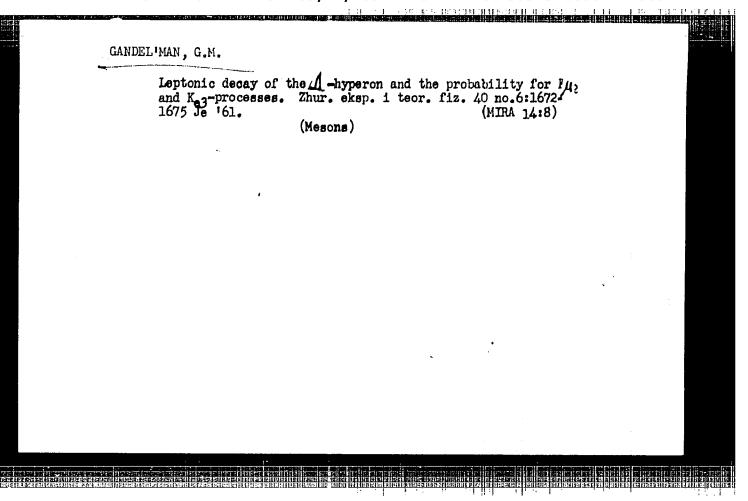
83726

The Quantum-mechanical Calculation of Pressure 8/056/60/038/004/019/048 in Solids 8006/8056

tensor into account. Thus, the quantum-mechanical pressure formula is not derived via the stress tensor, but is obtained as a generalization of the virial theorem. This formula (10) is applied to the model of the spherical cells of Wigner-Seitz and its application is discussed in great detail. The authors finally thank Ya. B. Zel'dovich, N. A. Dmitriyev, and V. N. Mokhov for advice and discussions. V. A. Fok is mentioned. There are 10 references: 4 Soviet, 2 Italian, 1 German, and 3 US.

SUBMITTED: September 29, 1959

Card 2/2



"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000614220004-2

24.7000

39665 \$/056/62/043/001/021/056 B102/B108

AUTHOR:

Gandel man, G. M.

TITLE:

quantum-mechanical calculation of the equation of state of

iron

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 1(7), 1962, 131 - 145

5/056/62/043/001/021/056 Quantum-mechanical calculation ... for calculating the most important characteristics of iron. The Thomas-Fermi potential of compressed atoms is chosen as the potential $V(k,\,r)$ acting on the electron. For the compressed-state calculations the method acting on the electron. For the compressed-state calculations, the method of spherical cells (Vigner, Seitz, Phys. Rev. 43, 804, 1933), 509, 1934) of spherical cells (Vigner, Seitz, Phys. Rev. 43, 804, 1933), 509, 1934) is used. $E_n(k)$ characterizes the energy band structure of the crystal, $E_n(k)$ characterizes the energy band structure of the crystal, $E_n(k)$ is a lattice vector, $E_n(k)$ quasimomentum. With $E_n(k)$ is a lattice vector, $E_n(k)$ quasimomentum. $Y_{\rm lm}(\hat{\mathscr{T}},\omega)$ as a solution of (1) with eight spherical harmonics the author determines the E(k) curves for several bands as dependent on the degree of filling and the band spacing for various degrees of compression (). The pressure - density relation is studied for T-O. For p = pkin + Coul
$$\begin{split} & p_{\text{кин}} = \int p_{\text{кин}}\left(q\right) \frac{d\Omega}{4\pi} \,, \qquad p_{\text{кин}}\left(q\right) = T_{\mu\nu}\left(q\right) n_{\mu} n_{\nu} = \\ & = \frac{\hbar^{2}}{4m} \bigg[-\frac{\partial^{2} \gamma \left(q' \mid q\right)}{\partial n^{2}} - \frac{\partial^{2} \gamma \left(q' \mid q\right)}{\partial n'^{2}} + 2\frac{\partial^{2} \gamma \left(q' \mid q\right)}{\partial n' \partial n} \bigg]_{q' \rightarrow q}, \end{split}$$
($\equiv p_{_{\rm KWH}}$ + $p_{_{\rm KWA}}$) one has (15a) $p_{\text{KYA}} = \frac{1}{6\omega} \sum_{h=0}^{\infty} \mathbf{F}^{(0h)} \mathbf{R}_{(0h)}$ (155) Card 2/4

S/056/62/043/001/021/056

Quantum-mechanical calculation ... B102/B108

1, a! are the particle coordinates, Ω the crystal volume, $\overline{k}'(\circ h)$ is the Coulomb force and $\overline{R}(\circ h)$ the distance between the centers of the two adjacent cells 0 and h; $\overline{p}(\circ h)$ is the probability for the n-th particle to be at the point q; \overline{n} is the normal to the cell surface. In terms of $e^2/a_0^4 = 293 \cdot 10^6$ atm the kinetic pressure is $p_{MHH} = \frac{1}{6\pi^2} \frac{1}{(aZ^{-1/2})^6} \sum_n \kappa_n \int_{E_n(h) \in E_F} k^2 dk \left(\sum_{l=M}^7 |A_{lM}^n(k)|^2 (|f_l^{n'}(k, x_0)|^2 - - |f_l^n(k, x_0)|^2 (|f_l^n(k, x_0)|^2) \right) \left[\sum_{l=M}^7 |A_{lM}^n(k)|^2 \right]^{-1}.$ (n - band number) and the exchange pressure (free electron gas) by p_{exch} . $\frac{1}{2\pi} \left(\frac{3}{\pi} \right)^{1/3} \frac{Z^{4/3}}{2^4} \frac{4/3}{(e1)^2} \frac{e^2}{a^4}.$ The correlation correction is $\frac{1}{2\pi} \left(\frac{3}{\pi} \right)^{1/3} \frac{Z^{4/3}}{2^4} \frac{4/3}{(e1)^2} \frac{e^2}{a^4}.$ The correlation correction is $\frac{1}{2\pi} \left(\frac{3}{\pi} \right)^{1/3} \frac{Z^{4/3}}{2^4} \frac{4/3}{(e1)^3} \frac{e^2}{a^4}.$ The correlation correction is $\frac{1}{2\pi} \left(\frac{3}{\pi} \right)^{1/3} \frac{Z^{4/3}}{2^4} \frac{4/3}{(e1)^3} \frac{e^2}{a^4}.$ The correlation correction is $\frac{1}{2\pi} \left(\frac{3}{\pi} \right)^{1/3} \frac{Z^{4/3}}{2^4} \frac{4/3}{(e1)^3} \frac{e^2}{a^4}.$ The correlation correction is $\frac{1}{2\pi} \left(\frac{3}{\pi} \right)^{1/3} \frac{Z^{4/3}}{2^4} \frac{4/3}{(e1)^3} \frac{e^2}{a^4}.$

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000614220004-2"

Card 3/4

S/056/62/043/001/021/056
Quantum-mechanical calculation ... B102/B108

45 r 3/3 = (x Z - 1/3 a o) 3/ v e1. The 3-values for various c are given numerically. Formulas are derived for thermal pressure and thermal electron energy. The values obtained for the electron specific heat in Fe agree with the abnormally high experimental value. There are 4 figures and 2 tables.

SUBMITTED: January 5, 1962

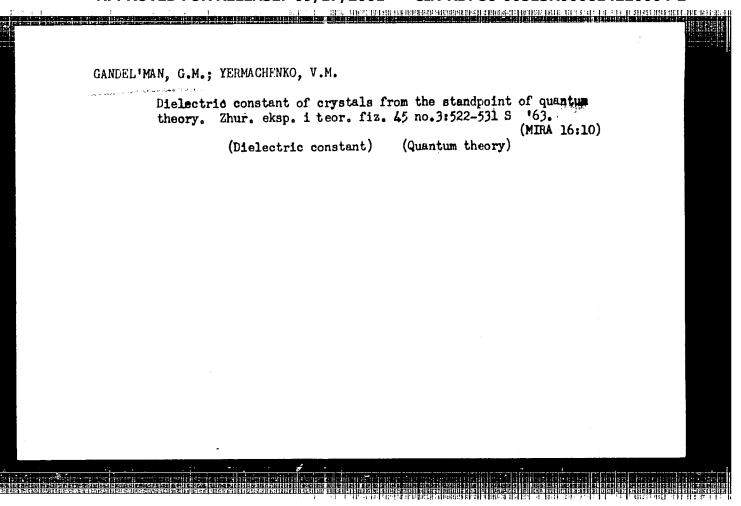
Card 4/4

GANDELIMAN, G.M.; YERMACHENKO, V.M.; ZELIDOVICH, Ya.B.

Nonmetallic nickel under high pressures. Zhur. eksp. i teor. fiz.
44 no.1:386-387 Ja '63.

(Mickel)

(High-pressure research)



L 43746-65 EWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EPR/T/EWP(t)/EWP(t)/EWA(c) Pf-4/ 33-4/Pu-4 IJP(c) JD/GG ACCESSION NR: AP5006532 S/0056/65/048/002/0758/0756						
AUTHOR: Gandel'man, G. M.						
TITLE: Metallization of solid argon under compression						
SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 48, no. 2, 1965, 758-760						
TOPIC TAGS: argon, solid argon, argon metallization, quantum mechanica						
ABSTRACT: The behavior of various elements under compression is investigated theoretically by solving Hartree's equation in crystals. The method of such quantum mechanical calculations was described earlier by the author. In studying						
the behavior of electron bands of solid argon during compression, metallization could be observed at a compression of $\delta = 3.2$ (initial density of solid argon $\rho_0 = 1.9$ gram/cm ³). In the normal state, argon is an ordinary elemental crystal						
whose binding energy is due to van der Waals forces. The proposed quantum mechanical method does not describe van der Waals forces. This method considers a very						
densely packed argon structure, the pressure being very low at = 1. ctually, call culations show an extremely low pressure at 6=1, in the initial state. When the						
Card 1/2						

L 43746-65 ACCESSION NR: AP5006532 compression is increased past thi and pressure calculations give a give a pressure (in megabars) of $\delta = 3$ and $p = 2.721$ at $\delta = 4$. When which is completely filled. containing the 3p1 sublevel. The 3c $\delta \times 3.2$, the 3d band lies below the with an empty 3d2 sublevel. The megabars. Orig. art. has: 2 fig.	p=0.027 at $6=1$; $p=0.3$ $6<3.2$, the upper filled aining 6 electrons, two if band is higher and continue 3p band and we have a pressure at the transiti	24 at 5 = 2; p = 1.062 at: d band is the 3p shell, n the 3p ₀ sublevel and ains no electrons. At
ASSOCIATION: none SUBMITTED: 310ct64	ENCL: 00	SUB CODE: GP, SS_
NO REF SOV: 001	OTHER: 001	
Card 2/2		

EWT(1)/EWT(m)/EMP(w)/I/EMP(t)/ETI $IJP(e^{\gamma})$ JE/JG/3G/JH SOURCE CODE: UR/0056/66/051/001/0147/0155 AP6024874 ACC NRI AUTHOR: Gandel'man, G. M. ORG: none TITLE: The quantum-mechanical theory of the equation of state of potassium, aluminum, SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 147-155 TOPIC TAGS: quantum mechanics, potassium, aluminum, iron, metal physical property, equation of state, quantum theory, electron ABSTRACT: The purpose of the present work is to make a detailed exposition of the results. obtained recently on the variation of the nature of electron bands of Al, Fe, K, and solid Cl, with a variation in density. The procedure used was modified in order to find the solution to the Hartree equation for single-electron wave functions in a crystal in the Wigner-Seitz approximation. The influence of exchange on the wave functions and the potential were not taken into account, but exchange was accounted for approximately in the pressure calculations. A detailed analysis is presented for the results of the calculation of cold pressure and a comparison is made with the data of statistical theory in which quantum corrections are taken into Card 1/2

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CIA-RDP86-00513R000614220004-2

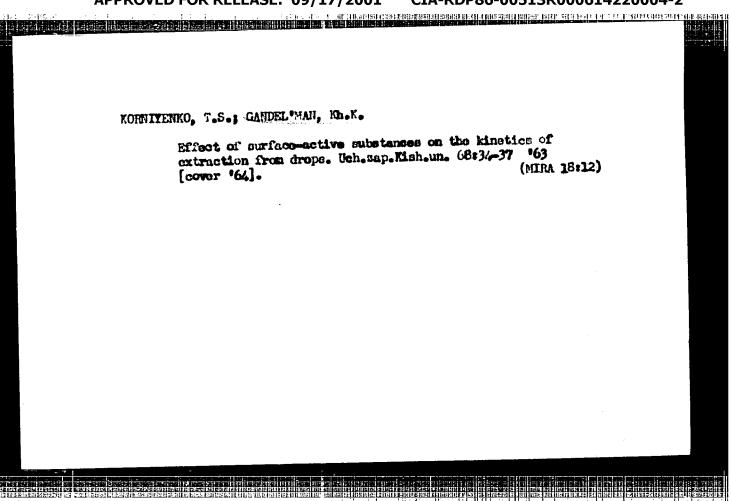
L 42813-66

ACC NR: AP6024874

account. Data are presented for the electron specific heat and the Grunaisen coefficient of electrons (Ye) calculated for K, Al, and Fe. A considerable rearrangement of the electron bands in Al due to compression is established theoretically; this rearrangement leads to the appearance of a region of negative Ye. An energy overlapping of the 4s and 3d bands in K due to compression is observed; this leads to a phase transition of the first kind in the region of negative Ye. The quantum mechanical theory presented provides an opportunity of predicting many properties of metals in a compressed state. The method already makes it possible to calculate electron rearrangements due to compression, loss of metallic properties in a specific range of pressures, as well as to calculate the thermal energy and the thermal pressure of electrons. Orig. art. has: 2 tables, and 6 figures.

SUB CODE: 11,20/ SUBM DATE: 28Feb66/ ORIG REF: 008/ OTH REF: 001/ ATD PRESS: 5067

Card 2/2 4th



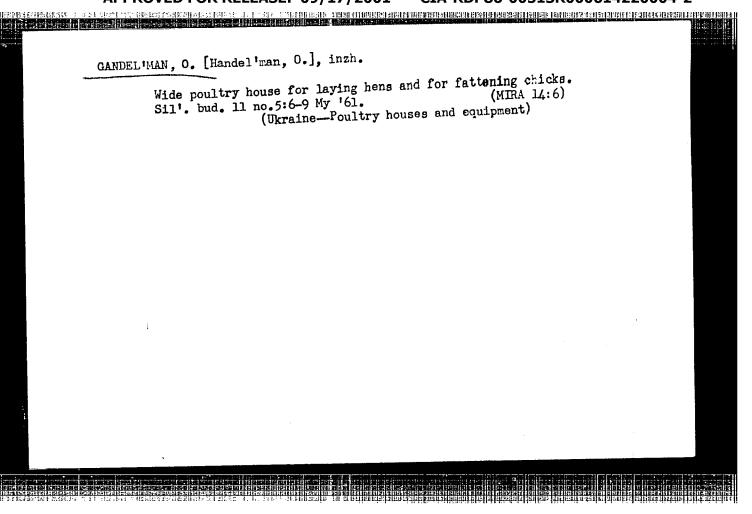
GANDEL'MAH, N.Ya.

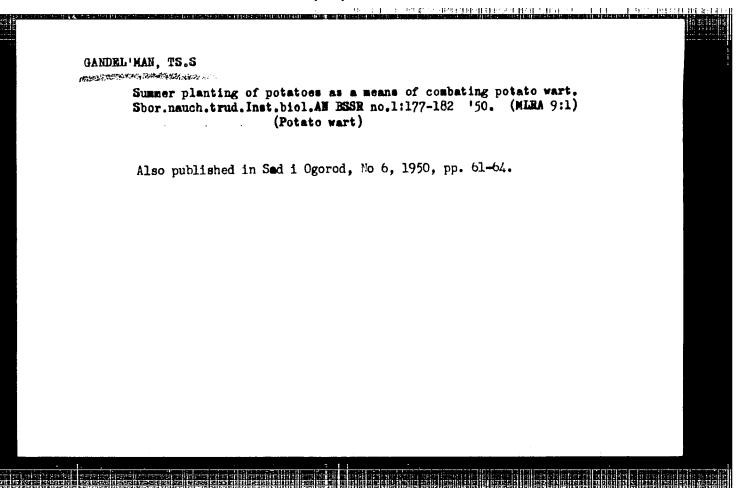
Clinical properties of certain forms of viral neuroinfections.

Nevropat.psikhiat., Noskva 20 no.2:26-29 Mar-Apr 1951. (CIML 20:9)

1. Of the Clinic for Nervous Diseases (Head--Honored Worker in Science Prof. I.Ya. Razdol'skiy, Corresponding Member of the Academy of Medical Sciences USSR), Leningrad Sanitary-Hygienic Medical Institute (Director--Prof. D.A. Zhdanov, Corresponding Member of the Academy of Medical Sciences USSR).

Noticed that when incidence of acute serous meningitis increases, there is also increase of herpes zoster. Describes observed cases where both diseases were present and speculates on causal connection. Describes symptoms of primary polyradiculoneuritis, meningoencephalites, and encephalomyelites and states that these diseases took more rapid course in 1936-1939 than now. Asks whether there has been change in properties of causative factor or modification or resistance of patients die to the war.





USSR/Plant Diseases. Diseases of Cultivate! Plants

Abs Jour : Bof Whur - Blol., No So, 1998, No 91900

Author : Gandel non Ts.S.
Inst : -

Title : Agrotechny in Controlling Potato Canker

Orig Pub : Kartoffel', 1958, No 2, 44-46

Abstract : No abstract

Card : 1/1

GANDEL'MAN, TS.S. Damage caused by potato wart and its control. Zashch.rast.ot wred. (MIRA 11:12) i hol. 3 no.6:45-47 N-D 58.

> 1. Direktor Minskoy stanteii Vsesoyuznogo instituta zashchity rasteniy.

(Potato wart)

LUR'YE, M. YE., GANDEL'MAN, YA. I., DZYUBENKO, YU. M.

Fishing Boats

Refrigerated collector - transport vessels with mechanical refrigeration. Ryb. khoz. 28 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958. Unclassified.

CANDEL'SHAH, A. E., Boykova, O. S. and Zon'kevich, K. F.

**Inherapeutic gymnastics in socioses arising from faults in the development of the spine", Shornik dauch, trudov (Nevo zdravookhraneniya RSFSA, Resp. naura, issled in-t vostanovleniya trudosposohosti fis. defektivnykh detey im. pro". Tur era), Leningrad, 19h3, p. h07-27.

So: U - 30h2, 11 March **3, (Letopis 'Zhurnal 'nykh Statey, Lo. 7, 19h9).

侵責的のとよっ 四:四十 USSR/Human and Animal Physiology - Herve and Muscle Physiology. : Ref Zhur - Biol., No 18, 1953, 34492 Author Gandel'sman, A.B., Golovinskaya, N.V. : Leningrad Medical Institute of Sanitary Hygiene and Inst Scientific Research Institute of Child Orthopedics. Title Recrientation of Motor Functions after Myo- and Tenoplasty. Orig Fub Tr. Leningr. san. gigien. ned. in-ta i ra-i. detsk. ortoped. in-ta, 1956, 29, 53-63. In children suffering from residual symptoms of polionyeli-Abstract tis, muscular motor chronaxy and muscular "static" tonus in various positions of the body were stylied. The observations were made through a window cut into the plaster cast above the myogaster at various times after the operation. The maximum success which could be achieved in training the children who were plaster casts, consisted in Card 1/2

USSR/Huran and Aniral Physiology - Nerve and Muscle Physiology.

T-9

Abs Jour : Ref Zhur - Biol., No 18, 1958, 84492

recrienting the child's evaluation of his motor possibllities, as well as in training him to acquire the ability to voluntarily activate his muscle with the grafted tendon. After the state of immobilization was terminated, considerable and long lasting motor deviations were observed. Despite the fact that old physiological connections (before tenoplasty) were of exceptional stability, the children were remarkably successful in forming new antagonistic muscular correlations when they moved their lower extremities after 3-5 months following the operation. Perfect stabilization of motor habits developed on the basis of the cerebral cortex's regulative ability which became enriched and perfected. Training methods which aim to achieve recrientation of motor functions after tenoplasty has taken place, are described.

Card 2/2

GANDEL'SMAN, A.B.; VERKHALO, Yu.N.

Chronospheroelectroreflexometer. Vop.psikhol. 6 no.2:
142-146 Mr-Ap '60.

1. Gosudarstvennyy ordena Lenina i ordena Krasnogo snameni
institut fizicheskoy kul'tury im. P.F.Lesgafta, Leningrad.

(Psychological apparatus)

GANDEL'SMAN, A.B.; GRACHEVA, R.P.; PROKOPOVICH, N.B.

Human adaptation to hypoxomina during muscular activity. Fiziol.
Zhur. 46 no. 7:851-859 Jl '60. (MIRA 13:8)

1. From the P.F. Lesgaft Institute of Physical Culture, Leningrad.
(ANOXEMIA) (EXERCISE)

BOYKOVA, O.S., metodist lechegnoy fizicheskoy kulitury; BORTFELID, S.A., kand. ped. nauk; GANDEL'S'AN, A.B., prof., doktor med. nauk; GOLOVINSKAYA, N.V., kand. biol. nauk; GONCHAHOVA, M.N., prof., doktor med. nauk; MIRZOYEVA, I.I., red.; KHARASH, G.A., tekhn. red.

[Exercise therapy in the pediatric orthopedic clinic] Lechebnaia fizicheskaia kul'tura v detskoi ortopedicheskoi klinike.
Leningrad, Medgiz, 1961. 191 p. (MIRA 15:4)
(EXERCISE THERAPY) (ORTHOPEDIC NURSING)

AID Nr. 997-6 25 June

AN INTEROREFLEXOMETER (USSR)

Gandel'sman, A. B., and Yu. N. Verkhalo. IN: Konferentsiya po metodam fiziologicheskikh issledovaniy cheloveka. Materialy. (Materials of the conference on methods of investigating human physiology). Moskva, 1962. 46-47. S/926/62/000/000/001/004

An instrument has been designed at the State Institute of Physical Culture imeni P. F. Lesgaft for the exact measurement of human reactions to various stimuli acting on the vascular chemoreceptors, and for determining the capacity for subjective (secondary signal) evaluation of changes in the gas content of the blood during various activities. This is accomplished by means of a closed breathing system in which the composition and pressure of the air respired can be exactly controlled. The device consists of a closed volume with a mixing pump, tanks of gases, gas flowmeters, CO₂ and O₂ detectors, elements for measuring oxygen blood level, and other components, including

Card 1/2

.AN INTERORLFLEXOMETER [Cont'd]			8/926/62	/000/00	0/001/	004		1		
autorecorders, and permits	exact time re	ecording of	of change	s in th	e con	posi-				
tion of the air in the closed v subject. Exact quantitative r	olume and ch	landes in	tha black	J		- ·	1			
mor orbior p makes possible	scientific and	alveie of	ho nnoo		1		ous			
- of armiton of the Infictions of	internal dag	matahali	tens dus lace		الأساسا					
ment for underwater swimmi	reat practical	importa	ice to th	e desig	n of e	quip-				
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intensive and protracted musc	ular activity.	- •						4		
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S/247/62/012/002/002/004

1015/1215

AUTHOR: Gandel'sman, A. B. and Prokopovich, N. B.

TITLE: Perfection of interoceptive analysis during acute hypoxemia and hypercapnia in man

PERIODICAL: Zhurnal vysshey nervnoy deyatel'nosoti, v. 12, no. 2, 1962, 223-228

TEXT: Three hundred experiments were carried out on seventeen long-distance runners. Perfection of the acuteness of inner sensation during the development of hypoxemia and hypercapnia was established. The better-trained runners showed a more rapid and complete perfection of self-appraisal. Special training in self-appraisal resulted in similar perfection in untrained healthy individuals. The conclusions are: interoceptive analysis and motor analysis can be improved in training; training can bring about a high degree of perfection of the interoceptive (chemoreceptivevasal) analyzer; it is possible to improve interoceptive analysis experimentally, in a closed space and at rest without motor training; the perfection of interoceptive analyzers might be an important factor in the conscious rational distribution(self-regulation) of vital loads in men, and prevent their over-strain. There are 4 figures.

ASSOCIATION: Kafedra fiziologii Instituta fizicheskoy kul'tury im. P. F. Lesgafta (Chair of Physiology,

Institute of Physical Culture im. Lesgaft)

SUBMITTED: March 27, 1961

Card 1/I

GANDEL'SMAN, A.B.; PROKOPOVICH, N.B.

Improved interoceptive analysis in acute hypoxemia and hypercapnia in man. Zhur. vys. nerv. deiat. 12 no.2:223-228 Mr-Ap '62.

(MIRA 17:12)

1. Kafedra fiziologii Instituta fizicheskoy kul'tury imeni P.F.

Lesgafta, Leningrad.

GAMDEL'GMAH, A.B., prof. (Leningrad, invovekly prospekt, d.76/10,kv.75)

Concerning the article "On the concepts of 'postural disorders' and 'scoliosis' in children." Ortop. travm. i protez. 26
no.6:80-81 Je '65.

1. Iz Instituta fizicheskoy kul'tury imeni F.F. Lesgafta.

ACC NR:

AP7009096

SOURCE CODE: UR/0413/67/000/003/0070/0070

INVENTOR:

Gandel'sman, A. B.; Kreytser, A. G.; Prokopovich, N. B.

ORG: None

TITLE: An oximeter. Class 30, No. 191044

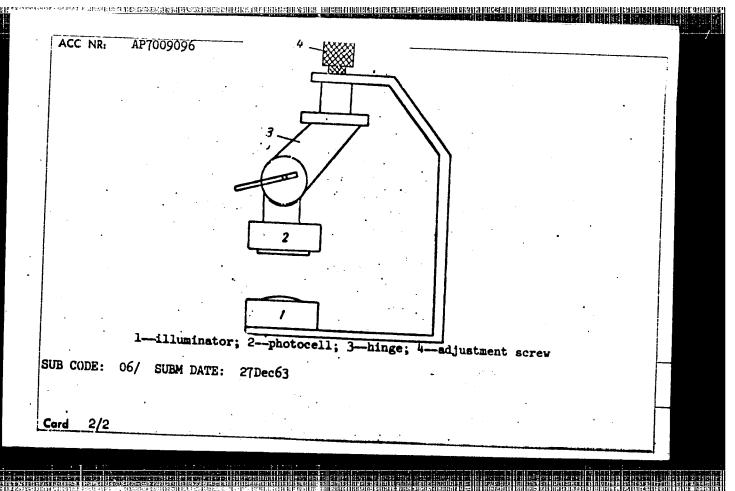
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 70

TOPIC TAGS: oximeter, medical laboratory instrument

ABSTRACT: This Author's Certificate introduces an oximeter containing an illuminator connected to a photocell. To increase convenience in selecting the optimum pressure to be applied between the fingers when measuring hypoximic displacement in the hand, the instrument is equipped with an adjustment screw and a hinge is used for interconnection between the photocell and illuminator.

Cord 1/2

UDC: 615.47:612.127.2-087



GANDEL'SMAN, A. F.

Phase I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 290 - I

radiocent more de la minimatica de la proposición de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya de la companya de la companya de la company

BOOK

Call No. TJ265.T4

Authors: GUKHMAN, A., Prof. Dr. of Phys. Sc.; ILYUKHIN, N. V., Kand of Eng. Sc.;

GANDEL'SMAN, A. F., Eng; and NAURITS, L. N., Eng.

Full Title: EXPERIMENTAL STUDY OF HEAT EXCHANGE AND RESISTANCE IN SUBSONIC REGION Transliterated Title: Eksperimental'noe issledovanie teoloobmena i soprotivleniya b dozvukovoy oblasti

Publishing Data

Originating Agency: Ministry of Heavy Machine Building Industry. (Glavkotloturboprom).

Central Scientific Institute on Boilers and Turbines. (TsKTI).

This is an article from Teploperedacha i aerogidrodinamika. (Heat Transmission and Aero-hydrodynamics), book 21, #5, pp. 5-58

Publishing House: State Scientific and Technical Publishing House of Literature

on Machine Building.

Date: 1951

Editorial Staff

Editor: Prof. Gukhman, A. A., Dr. Phys.-Math.Sci.

Editor-in-Chief: Golovin, S. Ya., Eng. Text Data

No. of copies: 2,000

Tech. Ed.: None

Apprainers: None

Coverage:

The authors describe a systematic study of heat exchange in gas moving at subsonic speed. Experimental data are incorporated with the results of other investigators to form a general hydrodynamic theory of heat exchange based on dimensional analysis and the use of different criteria

Eksperimental'noe issledovanie teplootmena i soprotivleniya b dozvukovoy oblasti

AID 290 - 1

Nu, Re, Pe, etc. 21 charts, 15 drawings and 7 tables.

The article presents methods of solution of those problems different from those usually given in American literature.

Purpose: The book is intended for workers in scientific research institutions and for designing engineers in the field of heat installation.

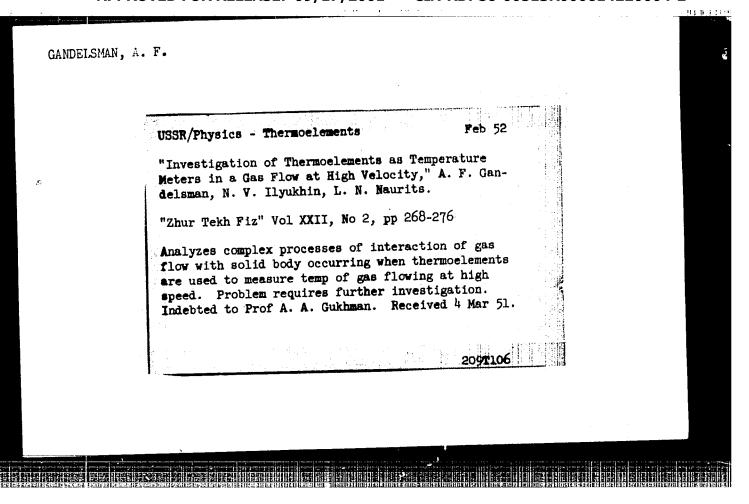
Facilities: The article is a continuation of a series of other articles on the same subject published in the periodicals of the Central Scientific Institute for Boilers and Turbines (TsKTI) and of the All-Union

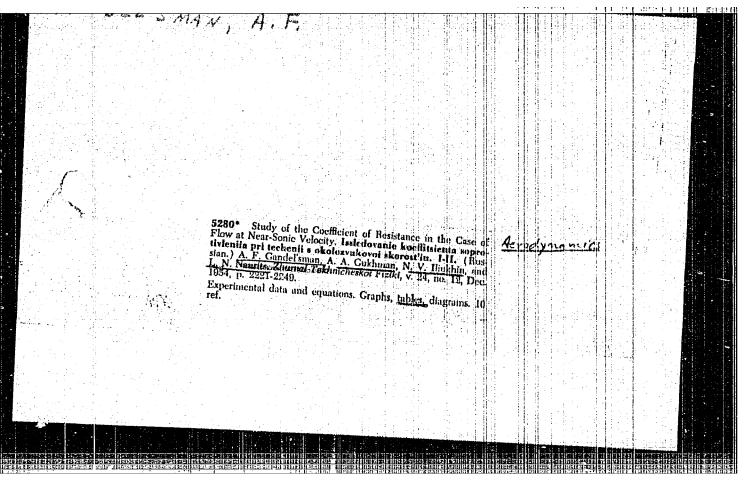
Heat Engineering Inst. (VTI)
No. of Russian References: 7 (1946-49)

Available: Library of Congress

GANDEL'SMAN, A. F., NAURITS, L. N., GUKHMAN, A. A. and ILTUKHIN, N. V.

"Study of Local Values of the Resistance Coefficient in the Subsonic Region of Flow" MO Ts KTI (1952)





GANDEL - MAN ET

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 4/17

Authors : Gandel'sman, A. F., Eng., Gukhman, Doc. of Phys.-Math. Sci. and II yuknih, N. V., Kand. of Tech. Sci.

: Study of measurement of the resistance coefficient of a Title

flow of gas moving with supersonic velocity

Periodical: Teploenergetika, 1, 17-23, Ja 1955

Abstract Results are analyzed of experimental research on the flow

of gas moving with supersonic velocity in a conic channel. A method of calculation is presented. Diagrams. Reference is made to 3 Russian books (1948-1954).

AID P - 1243

Institution: Central Boiler and Turbine Institute

Submitted : No date

AUTHORS: Gukhman, A.A. (Professor, Dr. of Phys. Mathematical Science), Gandel'sman A.F. (Engineer) and Naurits L.N. (Engineer). On the Hydro-Dynamic Resistance in the Trans-sonic region of TITLE: flow. (O gidrodinamicheskom soprotivlenii v transzvukovoy oblasti techeniya.) PERIODICAL: "Energomashinostroyeniye" (Power Machinery Construction). 1957, No.7, Vol.3, pp.10-14. (U.S.S.R.) ABSTRACT: It is now established that at trans-sonic rates of flow in channels the resistance coefficient changes appreciably. These changes are so great that it becomes impossible to consider the resistance coefficient as a specific characteristic of the channel which can be assumed constant for a given value of Reynolds number. The article considers a system of calculation based on another form of quantitative concept of energy dissipation. This system leads to a new hydro-dynamic characteristic of the channel which, 1/4 unlike the resistance coefficient, remains practically constant over the length at very high rates of flow. An expression is written down for the quantity of energy dissipated under conditions of adiabatic flow. This relationship forms the basis of all the subsequent deductions. Its special value consists in that entropy is a unique parameter of the condition of a moving medium, change in which can be directly associated with the quantity of energy

On the Hydro-Dynamic Resistance in the Trans-sonic region of flow.

dissipated For what Care 114-7-3/14

dissipated. For what follows it is essential that in high speed flow change in entropy along the axis of the channel occurs slowly compared with changes in all other parameters of condition, particularly in conditions of supersonic flow in an expanding channel when the geometry has an appreciable influence. Such a relationship between the intensity of change of entropy on the one hand, and all the other parameters on the other, provide the basis for approximation of the actual course of change of entropy over the length in a linear manner. As is shown below this assumption is confirmed by analysis of experimental data. In the fundamental expression the thermal equivalent of mechanical work multiplied by the work of friction on an elementary section related to unit mass of the moving medium is equated to the product of the thermodynamic temperature and the corresponding clange in entropy. further work, this equation is rewritten in dimensionless parameters It is shown that all the necessary data is available to compare the calculations with practice. Such a calculation has been made and will be published, and satisfactory agreement is found. A further magnitude is introduced to characterise the dynamic properties of the channel. The system of calculation based on the application of the new coefficient can be applied in practice only after fairly extensive experimental material has been accumulated

On the Hydro-Dynamic Resistance in the Trans-sonic region of 114-7-3/14

so that the numerical value of the coefficient can be selected in each particular case. Unfortunately there are as yet no reliable quantitative data on the laws of frictional resistance in a channel at supersonic speeds. A general procedure of calculation is then described. The direct problem is then defined as, being given the geometry of the channel (including the law of change of section with length) and the hydraulic characteristics of the channel to find the distribution of flow parameters along the length. The succession of operations in the calculations is described. The reverse problem is defined as, being given the geometry of the channel, its hydrodynamic characteristics and the relative speed to find the section in which the speed acquires the given value. Again the procedure for making the calculations is described. The article then proceeds to examine the available experimental data setting out in the first place to verify experimentally the "linearity hypothesis" which is the basic idea of the system of calculation. Results of the calculation are given in Fig. 3 in the form of a family of curves and good agreement is shown with experimental results. Thus the available data goes to show that the underlying

3/4

On the Hydro-Dynamic Resistance in the Trans-sonic region of flow. (Cont.) 114-7-3/14 assumptions of the new method are sound.

There are three figures and two literature references (Russian).

AVAILABLE:

GANDEL'SMAN, A. F.

"On Determination of Friction Work at a Gas Flow in Long Tubes."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

2, 249 \$/110/61/004/009/008/013 B10. /E125

11.7430

AUTHORS: Gukhman, A. A., Gandel'sman, A. F.

TITLE:

Use of an entropy method for determining the thickness of displacement of an adiabatic flow in a supersonic nozzle

PERIODICAL:

Inchenerno-fizicheskiy zhurnal, v. 4, no. 9, 1961, 73-75

TEXT: The adiabatic flow of a compressible fluid can satisfactorily be studied by the entropy method provided the velocities do not largely differ from the velocity of sound. The authors show a simple way for extending the application range of this method. The method is used to determine the thickness of displacement in the theory of two-dimensional flows. The adiabatic flow of a thermodynamically ideal gas in a supersonic nozzle of known shape is investigated. Pressure and temperature at the mouthpiece are known. Dissipative effects in the convergent part of the nozzle are neglected. In addition, μ is known, and it is assumed that $\mu=d\sigma/d\bar{x}$, whereby the intensity of energy dissipation in the livergent part of the nozzle is determined. The thickness of displacemen: may be found by comparing a real flow with a certain fictitious one dimensional flow having

Card 1/3

272h9 5/170/61/004/009/008/013 B104/B125

Use of an entropy method for ...

a homogeneous velocity field in each cross section. The latter is supposed to be identical with the former as regards flow rate, velocity distribution along the axis, and static pressure. Such a comparison is physically significant for investigating a perfectly isentropic fictitious flow and a flow in which the state of the moving medium varies only in the core outside the boundary layer. Denoting the cross sections by F and F¹ and the diameters by D and D¹, an axisymmetric channel will be given by: $\delta^* = (D-D^*)/2$; δ^* is the thickness of displacement. Thus, the problem is reduced to the determination of F¹ and F. Application of the entropy method permits an easy and simple solution of this problem. For a given value of μ , one easily finds the degree $f_{\rm g} = F_{\rm g}/F_{\rm m}$ of extension for the equivalent isentropic flow, i.e., for a flow that has the same velocity distribution as the ideal one. In this manner, one obtains the desired pressure distribution and the distribution λ^* of reduced velocities: $P = P_{\rm g} \exp(-\mu x)$ and $1 - \frac{k-1}{k+1} \lambda^{1/2} = (P^*/P_0)^{(k-1)/k}$. f' $(F^* = f^*F)$ and $f_{\rm g}$ may be taken from tables of gas-dynamic functions. There are 1 figure and 1 Soviet reference.

Card 2/3

Use of an entropy method for...

27249 5/170/61/004/009/008/013 B104/B125

ASSOCIATION: Institut khimicheskogo mashinostroyeniya, g. Moskva

(Institute of Chemical Engineering, Moscow)

SUBMITTED:

May 19, 1961

Card 3/3

L 10383-63 EPR/EPA(b)/EPF(c)/EPF(n)-2/EWT(1)/BLE--AFFTC/AMXC/ AFMDC/ASD/SSD--Ps-4/Pd-4/Pu-4-WW S/0170/63/000/006/0037/0044-79

AUTHOR: Gukhman, A. A.; Gandel'sman, A. F.; Naurits, L. N.; Usanov, V. V.

TITIE: Characteristic features of supersonic flows directly adjoining the transonic region

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 6, 1963, 37-44

TOPIC TAGS: transonic flow, supersonic nozzles, heat transfer, hydrodynamic theory

ABSTRACT: The relationship between heat transfer and hydrodynamic resistance in the transonic region of a gas flow has been investigated experimentally using a test section consisting of a water-cooled nozzle. The following parameters were measured: air-flow rate, static pressure along the nozzle length, stagnation temperature along the cross section before the test section, outside wall temperature of the nozzle, and amount of condensate. Thirteen test runs pace

Card 1/2

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ACCESSION NR: AP3003046

covering three basic regimes for the temperature ranges 547.0--548.5K, 629.5--630.5K, and 698.5--699.0K. The results obtained are given in the form of graphs showing pressure and heat-flux distribution, temperature variations, distribution of the coefficient of hydraulic resistance, and of the Stanton number. It is shown that the passage through transonic velocity is accompanied by a disturbance in the normal form of the relationship between the intensity of heat transfer and the hydraulic resistance; beginning with the value of the thermal conductivity of the wall of the nozzle, lambda = 1.35, the basic relationship of the hydrodynamic theory of heat transfer can be applied with accuracy sufficient for practical engineering problems. Orig. art. has: 5 figures, 12 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 03Apr63

DATE ACQ: 22Jul63

ENCL: 00

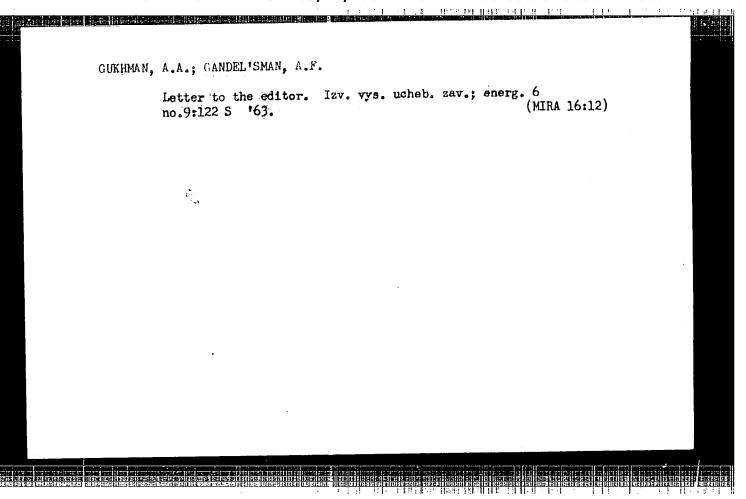
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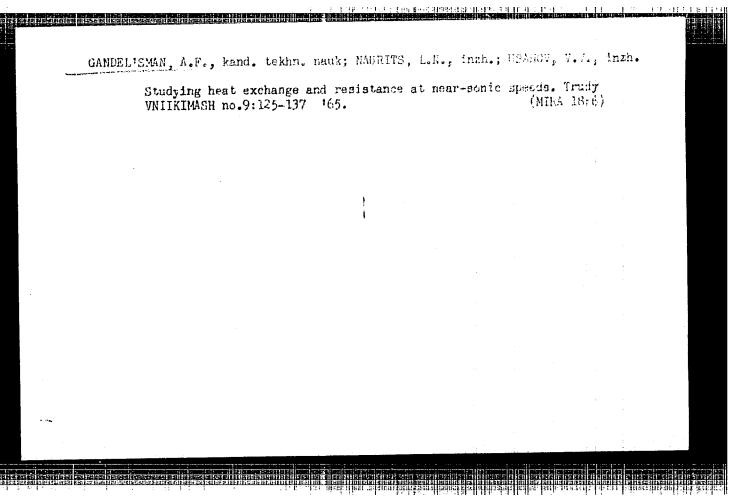
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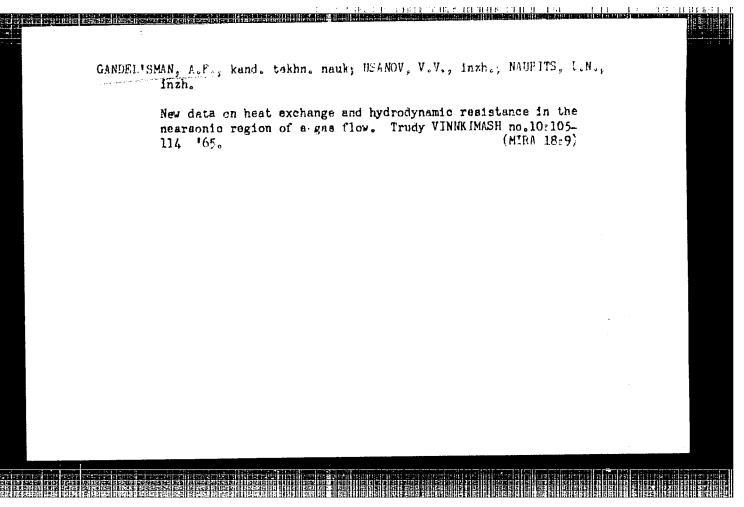
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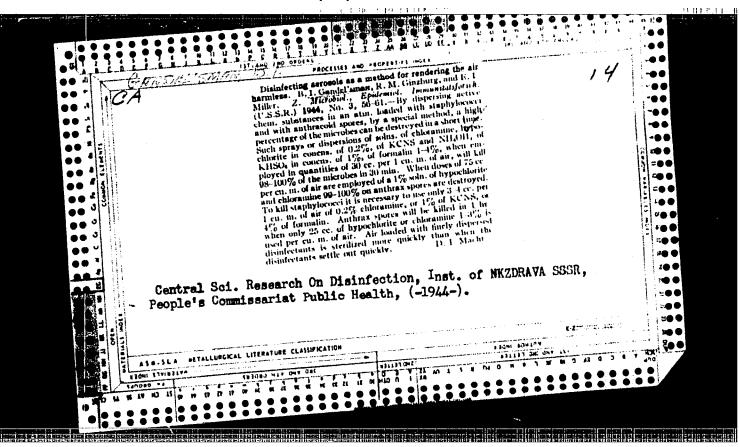
GANIYEVA, A.Kh.; GANDEL'SMAN, A.M.

New forms of activity of the Scientific and Technical Society and factory technical councils. Shvein.prom. no.3x27-23 ky-Je (MIRA 15:6)

162. (Glothing industry--Technological innovations)

GANDEL'SMAN, A . O.

English Technical Reader on Food Insustry. Moskva, Pishchepromizdat, 1948.



GANDEL'SMAN, B. I.

USSR/Medicine - Air

Medicine - Disinfection and Disinfectants

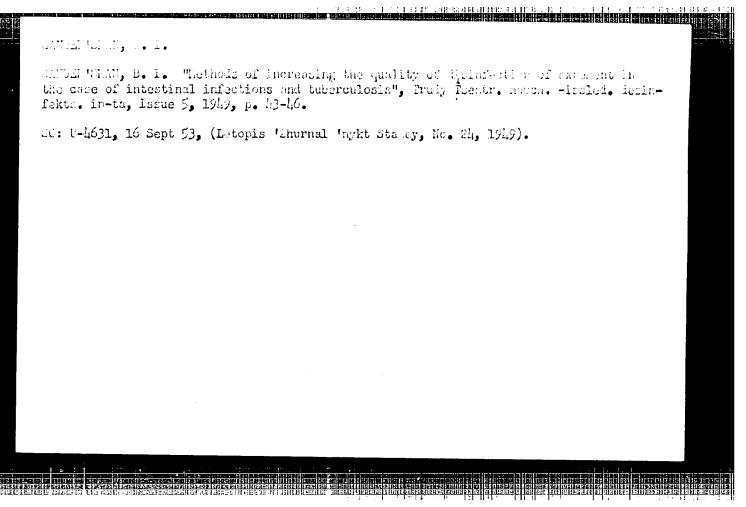
Nov 1947

"The Problem of Disinfection of the Air," B. I. Gandel'sman, R. M. Ginzburg, Central Scientific Research Disinfectant Institute, Ministry of Health of the USSR, 5 pp

"Zhur Mikrobiol, Epidemiol i Immunobiol" No 11

An account of experiments in three basic means of disinfecting the air: 1) by chemical agents, 2) by ultraviolet rays, and 3) by mechanical separation of microorganisms from the air.

PA 36T62



EMERGICAN, . 1.

EMERGICAN, D. 1., McMLST, N. U., Mirrich, S. F. "Bethols of laboratory control of the results of disinfection", (In index, reeni author: Korniev, V. 1.), Study Theatrenauch. -issled. decinfekts. in-ta, Issue S, 1949, p. 47-62.

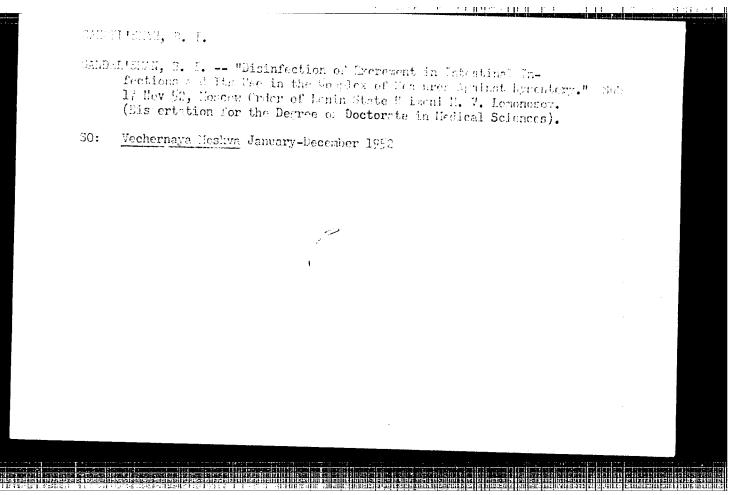
Co: 8-4631, 16 Sep 53, (Letoris 'Churnal 'mykt Statey, No. 24, 1949).

GANDEL'SHAN, B. I.					PA 65/4	9161
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GANIEL SMAN, B. I.

37513 Gandel'sman, B. I. Problema obessarashiwaniya vosdukha. V SB: XII vseeoyus. S"yesd gigiyenistov, epidemiologov, mikrobiologov I infektsionistov. T. I. M.,

SO: Letopis' Zhurnal'nykh Statey Vol. 37, 1949



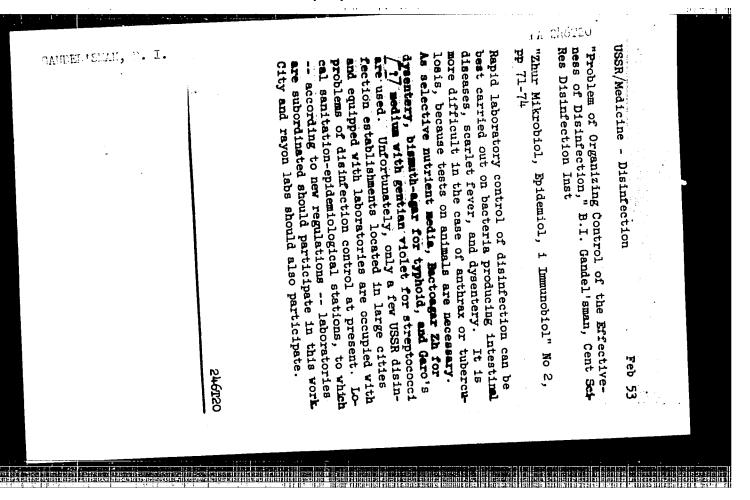
- 1. GANDEL'SMAN, B.I. and TREGUBOV, A. N.
- 2. USSR (600)
- 4. Rats-Extermination
- "Disinfection, disinsectization, and deratization." M. L. Turich, V. V. Solov'yeva. 7. Reviewed by B. I. Gandel'sman, A. N. Tregubov. Gig.i san. Vol. 17 no. 10, 1952;

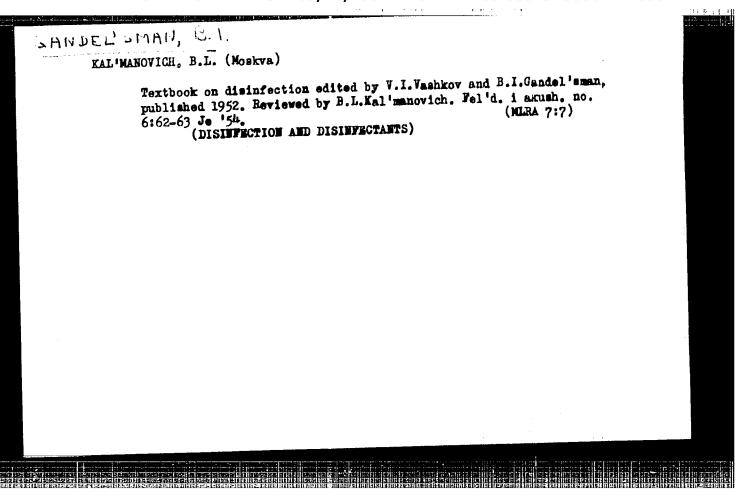
Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

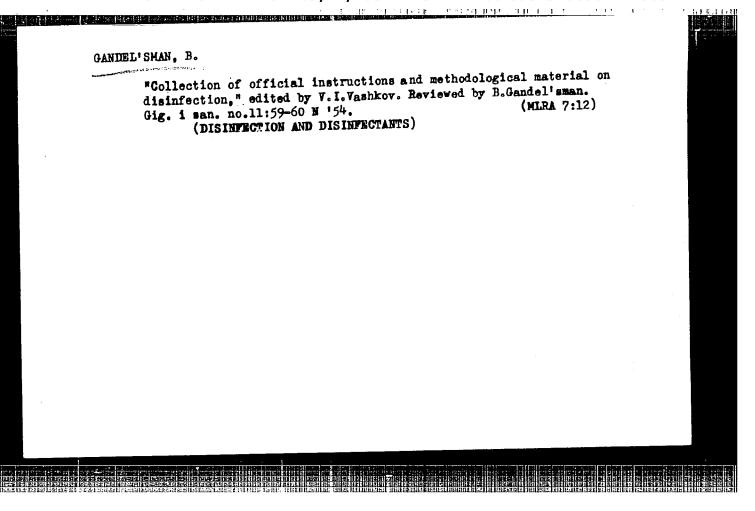
GANDEL'SMAN, B. I.; YELISTRATOVA, Z. A. and KAVENOKI, F. Ya.

"The Effect of Desiccation on the Period of Survival of Hiss-Flexner Dysentery Bacilli," Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 1, 1953.

Central Scientific Research Disinfection Institute







GANDEL'SMAN, B. I.

GANDEL'SMAN, B. I. -- "Disinfection of Excretions in Intestinal Infections and Its Use in the Measures of Dysentery Control." *(Dissertations for Degrees in Science and Engineering D_fended at USSR Higher Educational Institutions) Min Public Health USSR, Central Inst for the Advanced Training of Physicians, Moscow, 1955.

SO: Knizhnaya Letopis' No.31, 30 July 1955.

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*For the Degree of Doctor of Medical Sciences.

GANDEL'SMAN, B.I., dotsent; SVISTOVA, A.V.; KULAKOVA, M.K. (Moskva)

Deficiencies in the control of dysentery. Sov. zdrav. 14 no.6:22-26
N-D '55. (MIRA 9:2)

(DYSENTERY, BACILIARY, prevention and control, in Russia)

GANDEL'SHAN, Berta Izrailevna, dotsent; HYZHOV, Anatoliy Alekseyevich; ZHUKOV, G.T., redaktor; BEL'CHIKOVA, YU.S., tekhnicheskiy redaktor

[Organization of disinfection in the U.S.S.R.] Organizatsiia desinfektsionnogo dela v SSSR. Moskva, Gos. izd-vo med. lit-ry, 1956 94 p. (Biblioteka vracha-organizatora. Lektsii po organizatsii sdravoekhraneniia dlia vrachei. Organizatsiia sanitarno-spidemiologicheakogo dela v SSSR, lektsiia 5) (MLRA 9:7) (DISINFECTION AND DISINFECTARTS)

CHNEEL'S COUNT, 5.

ZHDANOV, V.; KHRISTOV, L.; MURAV'YEV, M.; RYZHOV, A.; VASHKOV, V.; PEDOSOVA, A. POGODINA, L.; KLECHSTOVA, A.; SUEBOTIN, A.; ZAKHAROVA, Yo.; GAIDEL'S-MAN, B.; SAZONOVA, N.; ZEVAKINA, I.; KUDRINSKIY, I.; MISKAROV, D.; KHANENYA, F.

Professor A.N.Tregubov; obituary. Gig. i san. 21 no.10:63 0 '56. (MLRA 9:11)

(TREGUBOV, ALEKSANDR NIKOLAEVICH, 1888-1956)

USSR/Microbiology - Microbes Pathogenic for Man and Animals.

Bacteria. Bacteria of the Intestinal Group.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99413

Author : Gandel'sman, B.I.

Inst : Central Scientific Research Disinfection Institute.

Title : Variability of the Pathogens of Intestinal Infections

(Typhoid and Dysentery) During Their Survival on the Surface of Various Objects Soiled by Infected Substrate

F

Orig Pub : Tr. Tsentr. n.-i. dezinfekts. in-ta, 1957, vyp. 10, 107-

118

Abstract : Saliva and feces infected with museum cultures of bac-

teria of Flexner's dysentery and typhoid fever were transferred upon plywood, wooden, glass and wallpaper surfaces. Samples were taken from the surfaces with a pipette con-

taining a sterile meatpeptone broth. The broth was

Card 1/2

- 77 -

USSR/Microbiology - Microbes Pathogenic for Man and Animals. Bacteria. Bacteria of the Intestinal Group.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99413

> lightly spread with the pipette and then again aspirated for immediate insemination on an enriched medium. From vertical and cracked surfaces the washings were taken with a tampon moistened in broth which was then immersed in the enriched medium. It turned out that the death of the microbes on the experimental surfaces depended upon the massivity of the infection; for the typhoid bacteria, it occurred in about 26 days, and that of dysenteric bacteria in about 66 days. The morphological, biochemical and serological properties of the isolated microbes remained unchanged during the whole period of observation, while the virulence decreased markedly in the typhoid microbes and almost completely disappeared in the dysenteric bacteria. -- A.N. Shibayeva

Card 2/2

CIA-RDP86-00513R000614220004-2" **APPROVED FOR RELEASE: 09/17/2001**

F.

USSR/Microbiology - Microbes Pathogenic in Man and Animals.

Abs Jour : Ref Zhur - Biol., No 15, 1950, 67272

Author : Gandel'sman, B.I., Ryzhov, A.A., Khudadov, G.D.

Inst : Central Scientific Research Disinfection Institute.

Title : An Analysis of the Functioning of Disinfection Stations

as Concerns the Struggle with and Prophylaxis of Infec-

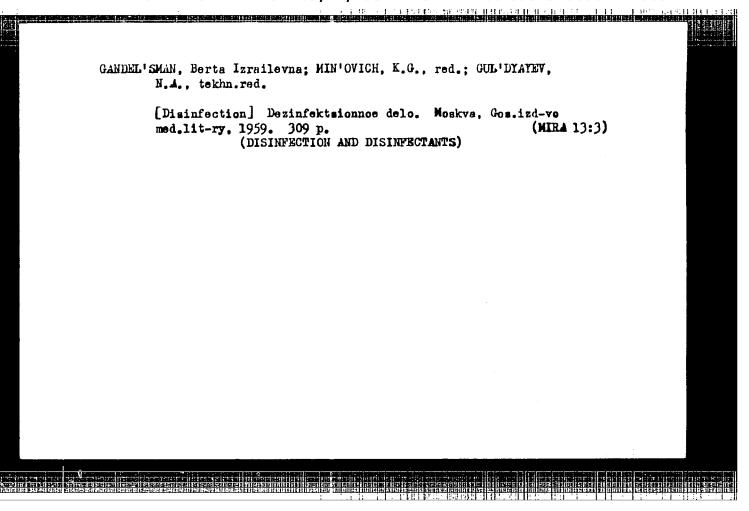
tious Diseases.

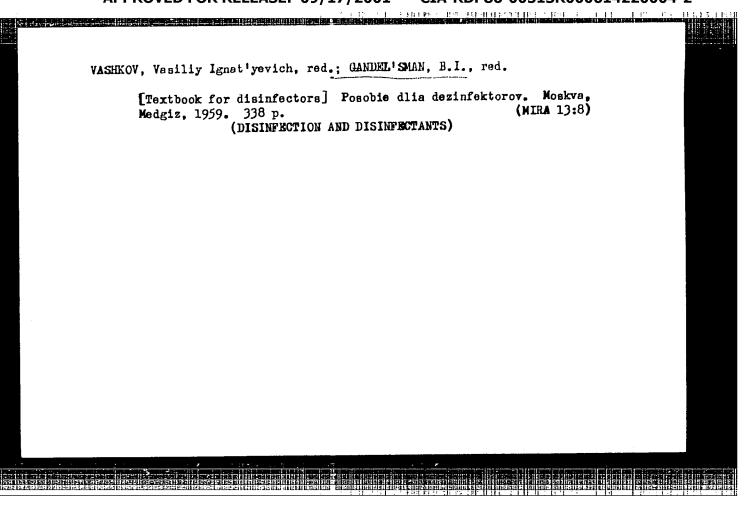
Orig Pub : Tr. Tsentr. n.-i. dezinfekts. in-ta, 1957, No 10, 311-

319.

Abstract : No abstract.

Card 1/1





GANDEL'SMAN, B. I.

"Basic problems of organization of the disinfection sorvice in the USSR and the immediate problems and prospects of its development."

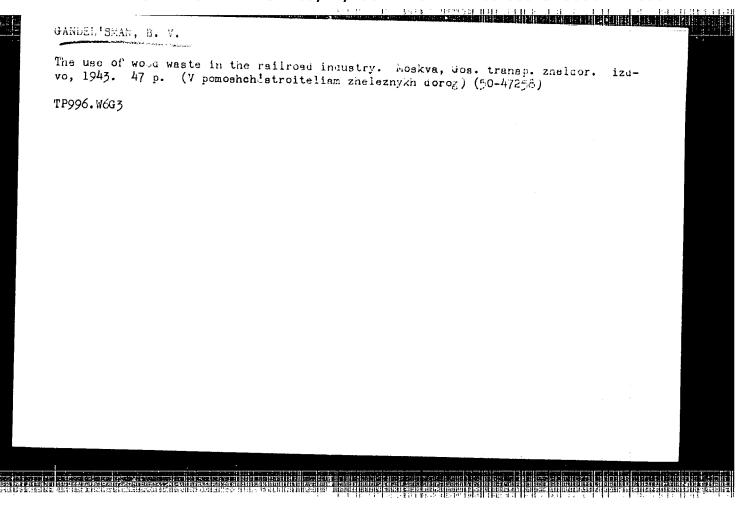
Report submitted at the 13th All-Union Congress of Hygienists. Epidemiologists and Infectionists. 1959

GANDEL'SMAN, Boris Markovich; SICH, Boris Zinov'yevich; MURAKHIYA, A.K., red.; BAKHTIYAROY, A., tekhn.red.

[Spectrum analysis in the months of the control of the control

[Spectrum analysis in the manufacture of machinery] Spektral'nyi analiz v mashinostroenii. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1959. 54 p. (MIRA 14:3)

(Spectrum analysis) (Machinery industry)



AUTHORS:

Vostrov, G. A., Gandel sman Internal

507/32-24-10-54/70

TITLE:

An Apparatus for Measuring the Small Values of the Specific Electric Conductivity of Liquids (Pribor dlya izmereniya malykh znacheniy udel'noy elektroprovodnosti zhidkikh sred)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1284-1285 (USSR)

ABSTRACT:

An apparatus was devised which makes possible measurements of the electric conductivity of the order 10⁻¹¹ Ohm⁻¹cm⁻¹. This apparatus operates with a. c. with a compensation of the capacity loads formed. A basic scheme is given. From the description it may be seen that the stabilized mains voltage is connected to a transformer the second winding of which has a ground. The apparatus contains a lamp voltmeter of the type LV-9. The specific conductivity of the liquid is determined according to a formula. Measurements carried out with this apparatus of amyl acetate and glycerin at 25° gave their specific

electric conductivity as 5,5.10⁻¹⁰ or 1,1.10⁻⁸ 0hm⁻¹cm⁻¹, respectively. The measuring error is 6%. The experiments carried out to verify the reproductibility of the

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carried out to verify the reproducibility of the measurements yielded good results. The apparatus described will be used at

An Apparatus for Measuring the Small Values of the Specific Electric Conductivity of Liquids

the laboratory of the "Svetlana" factory for controlling the electric conductivity of organic solvents and suspensions produced on the basis of these solvents, and in the production of radio tubes.

There is 1 figure.

Card 2/2

AUTHOR: Avgustinik Gropyanov, V. M.; D	, A. I.; Vigdergauz, V. rozdetskaya, G. V.	S.; Gandol'sman, I.	··zeus*f	
ORG: none	./	27 27	<i>اها</i> دا	ا نا اد
TITIE: Use of a cercathodic heaters of	rmet made of tungsten a electron tubes	• 0	he preparation of	
SCURCE: AN SSSR. O khimii silikatov i Moscow, Izd-vo Nauk	tdoleniye obshchey i te okislov (Studies in the a, 1965, 257-264	khnicheskoy khimii. Is field of chemistry of	sledovaniya v obl silicates and ox	asti idos).
TOPIC TAGS: high to	omperature cermet mater	ial, tungsten, aluminu	m oxide	
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GANDEL'SMAN, I.M., inzh.; BONDARENKO, N.A., inzh.; BELGELYREOV, A.B., inzh.

Programmed, multiple-position, charge mixture proportioning device.

Lit. proizv. no.12:14-15 D '65. (MIRA 18:12)

ACC NR: AP7007580

SOURCE CODE: UR/0118/66/000/009/0017/001/

AUTHOR: Auppo, A. S. (Engineer); Gandel'sman, I. P. (Engineer)

ORG: none

TITIE: Specialized computer for calculation of optimal parameters of technological processes

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 9, 1966, 41-44

TOPIC TAGS: computer, coal

SUB CODE: 09, 08

ABSTRACT: An analysis is made of a specialized computer designed to solve the problem of increasing the output of a coal treatment plant. The computer consists of a section for input of initial data in the form of enrichment curves, sections for computing values of the coordinates of these curves, units for input of values of the coefficients q; and the assigned value of average ash content of the overall concentrate, the decision element, the null-balance device, and the output unit. The computer works as follows: the values of average ash content of the concentrate and coefficient ci are loaded into the computer to determine the fraction of each of the classes of coal in percent of the total. During the process of solution, the values of the coordinates of the enrichment curves are calculated at points of Cord 1/2

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equal derivatives M'1= M'2=M'3 and the cirthose points Wine country	Province and a first party of	
these points. When equality is achieved bar equation, the null-balance device operates	for should equations are solved at a	
Maired. The output domain	and one complicating process is	<i>!</i>
to the operator, such as forth	Toron and the data of interest	
classes, etc. Orig. art. has: 4 figures an	d 3 formulas. [JPRS: 39,779]	•
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YAGUPOL'SKIY, L.M.; GANDEL'SMAN, L.Z.

Diazastyryls with fluorine-containing substituents. Zhur.ob.khim.
33 no.7:2301-2307, J1 '63. (MIRA 16:8)

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YAGUPOL'SKIY, L.M.; GANDEL'SMAN, L.Z.

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and their salts. Zhur. ob. khim. 35 no.7:1252-1260 Jl '65.

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